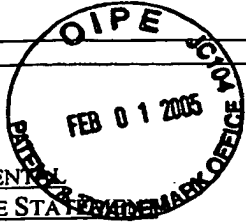
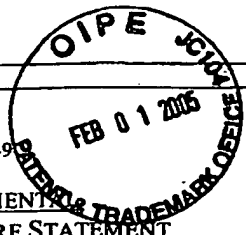


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FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT(S) Hartley <i>et al.</i>		ART UNIT 1636	
FILING DATE May 16, 2001							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
<i>ASD</i>	AE4	2002/0182731	12/05/2002	Ji <i>et al.</i>	X	X	01/25/2002
	AF4	2003/0027289	02/06/2003	Farmer			04/05/2002
	AG4	2003/0054555	03/20/2003	Farmer <i>et al.</i>			09/17/2002
	AH4	2003/0059900	03/27/2003	Farmer			01/17/2002
	AI4	2003/0077804	04/24/2003	Byrd <i>et al.</i>			04/19/2002
	AJ4	2003/0153055	08/14/2003	Miles <i>et al.</i>			02/20/2003
<i>ASD</i>	AK4	2003/0176644	09/18/2003	Byrd <i>et al.</i>			02/07/2002
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
<i>ASD</i>	AO9	WO 01/31039	05/03/2001	WIPO PCT	X	X	Yes No
<i>ASD</i>	AP9	WO 02/08391	01/31/2002	WIPO PCT			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR						
<i>ASD</i>	AS	117	Bruckner, R.C., and Cox, M.M., "The Histone-like H Protein of <i>Escherichia coli</i> is a ribosomal protein s3," <i>Nucl. Acids Res.</i> 17:3145-3161, Oxford University Press (1989)				
<i>ASD</i>	AT	117	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Res.</i> 10:1788-1795, Cold Spring Harbor Laboratory Press (November 2000)				
EXAMINER <i>ASD</i>						DATE CONSIDERED 4-18-05	
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<i>AA</i>	AA5	2003/0220249	11/27/2003	Hackett <i>et al.</i>	X	X	02/07/2003
<i>↓</i>	AB5	2004/0053412	03/18/2004	Hartley <i>et al.</i>	X	X	03/26/2003
<i>↓</i>	AC5	2004/0063207	04/01/2004	Hartley <i>et al.</i>	X	X	10/08/2003
<i>↓</i>	AD5	6,720,140	04/13/2004	Hartley <i>et al.</i>	X	X	02/04/2000
<i>↓</i>	AE5	2004/0171156	09/02/2004	Hartley <i>et al.</i>	X	X	04/02/2004
<i>↓</i>	AF5	2004/0171157	09/02/2004	Hartley <i>et al.</i>	X	X	04/08/2004
<i>AA</i>	AG5	2004/0219516	11/04/2004	Bennett <i>et al.</i>	X	X	07/18/2003
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>AA</i>	AL10	WO 02/16594	02/28/2002	WIPO <i>PCT</i>	X	X	Yes No
<i>↓</i>	AM10	WO 02/61034	08/08/2002	WIPO <i>PCT</i>	X	X	Yes No
<i>↓</i>	AN10	WO 03/25161	03/27/2003	WIPO <i>PCT</i>	X	X	Yes No
<i>↓</i>	AO10	WO 03/103600	12/18/2003	WIPO <i>PCT</i>	X	X	Yes No
<i>AA</i>	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AA</i>	AR	<u>118</u>	Heyman, J.A., <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Res.</i> 9:383-392, Cold Spring Harbor Laboratory Press (April 1999)
<i>↓</i>	AS	<u>118</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html (accessed July 7, 2004)
<i>↓</i>	AT	<u>118</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: http://invitrogen.com/content.cfm?pageid=3371&cfid=16767784&cftoken=62396683 (accessed July 7, 2004)

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	119	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>Am. Biotechnol. Lab.</i> 18:8,10, International Scientific Communications, Inc. (June 2000)
	AS	119	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist Inc. (August 21, 2000) available at: http://www.the-scientist.com/yr2000/aug/profile1_000821.html
AAZ	AT	119	<i>Not for publication.</i> Office Action for U.S. Patent Application No. 09/907,719, mailed on July 13, 2004

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	AN						Yes No
	AO						Yes No
	AP						Yes No

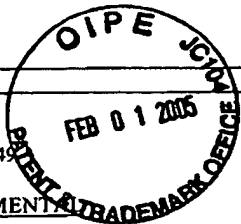
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	AR	120	Office Action for U.S. Patent Application No. 09/432,085, mailed on July 16, 2004 <i>Not for Publication</i>				
ADD	AS	120	Office Action for U.S. Patent Application No. 10/058,291, mailed on September 22, 2004 <i>Not for Publication</i>				
ADD	AT	120	Office Action for U.S. Patent Application No. 10/058,292, mailed on September 22, 2004 <i>Not for Publication</i>				

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	121	Office Action for U.S. Patent Application No. 09/855,797, mailed on October 1, 2004 <i>Not for Publication</i>				
AA2	AS	121	Office Action for U.S. Patent Application No. 09/695,065, mailed on October 27, 2004 <i>Not for Publication</i>				
	AT						

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<i>AA</i>	AA20	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AB20	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AC20	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/1986
	AD20	5,451,513	09/19/1995	Maliga <i>et al.</i>			08/25/1993
	AE20	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AF20	2002/0106797	08/08/2002	Miles <i>et al.</i>			03/12/2001
<i>AA</i>	AG20	2004/0040053	02/26/2004	Nomura <i>et al.</i>			11/22/2002
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>AA</i>	AL20	FR 2 670 502	06/16/1992	France			Yes X No
	AM20	WO 92/10577	06/25/1992	WIPO <i>PCT</i>			Yes X No
	AN20	WO 94/20604	09/15/1994	WIPO <i>PCT</i>			Yes X No
	AO20	WO 96/19497	06/27/1996	WIPO <i>PCT</i>			Yes X No
<i>AA</i>	AP20	WO 00/29000	05/25/2000	WIPO <i>PCT</i>			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AA</i>	AR	<u>200</u>	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells. Targeted Expression of Cre Recombinase Provokes Cardiac-restricted, Site-specific Rearrangement in Adult Ventricular Muscle In Vivo," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)
	AS	<u>200</u>	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
<i>AA</i>	AT	<u>200</u>	Botstein, D., <i>et al.</i> , "Making Mutations <i>In Vitro</i> and Putting Them Back Into Yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)

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4-18-05

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AZ	AL21	WO 00/52027	09/08/2000	WIPO PCT	X	X	Yes
	AM21	WO 00/52141	09/08/2000	WIPO PCT			No
	AN21	WO 01/25466	04/12/2001	WIPO PCT			Yes
	AO21	WO 01/42509	06/14/2001	WIPO PCT			No
	AP21	WO 02/46372	06/13/2002	WIPO PCT			Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AZ	AR	201	Broach, J.R., "The Yeast Plasmid 2 μ Circle," <i>Cell</i> 28:203-204, MIT (1982)
	AS	201	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription-translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AT	201	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (September 1996)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AZ	AL22	WO 02/62957	08/15/2002	WIPO PCT	X	X	Yes
	AM22	WO 02/86144	10/31/2002	WIPO PCT	X	X	No
	AN22	WO 02/095055	11/28/2002	WIPO PCT	X	X	Yes
	AO22	WO 03/044207	05/30/2003	WIPO PCT	X	X	No
AZ	AP22	WO 04/009768	01/29/2004	WIPO PCT	X	X	Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AZ	AR	202	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)
	AS	202	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
AZ	AT	202	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>AZ</i>	AL23	WO 04/013290	02/12/2004	WIPO PCT	X	X	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AZ</i>	AR	<u>203</u>	Gottesman, S., "Bacterial Regulation: Global Regulatory Networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)
	AS	<u>203</u>	Guo, F., <i>et al.</i> , "Structure of Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
<i>AZ</i>	AT	<u>203</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)

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	AM						Yes
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	AN						Yes
							No
	AO						Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

B2	AR	204	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)
↓	AS	204	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (May 1995)
B2	AT	204	Huang, L.-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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<i>AZ</i>	AR	<u>205</u>	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago (1986)
<i>AZ</i>	AS	<u>205</u>	Johnston, S.A. and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
<i>AZ</i>	AT	<u>205</u>	Kendall, K.J. and Cohen, S.N., "Plasmid Transfer in <i>Streptomyces lividans</i> : Identification of a <i>kil-kor</i> System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)

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	AP						Yes No

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AZ	AR	206	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)
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↓	AT	206	Mayer, B.J. and Baltimore, D., "Signalling through SH2 and SH3 domains," <i>Trends Cell Biol.</i> 3:8-13, Elsevier Science (1993)

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ATTY. DOCKET NO.
0942.285000G/RWE/BJD/JKM

APPLICATION NO.
09/855,797

APPLICANT(S)
Hartley *et al.*

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AR	207	McKnight, S.L., "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> 31:355-365, MIT (1982)
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<i>AZ</i>	AR	<u>209</u>	Sauer, B. and Henderson, N., "Targeted Insertion of Exogenous DNA into the Eukaryotic Genome by the Cre Recombinase," <i>New Biol.</i> 2:441-449, Saunders Scientific Publications/W.B. Saunders Company (1990)
<i>↓</i>	AS	<u>209</u>	Senecoff, J.F., <i>et al.</i> , "The FLP recombinase of the yeast 2- μ m plasmid: Characterization of its recombination site," <i>Proc. Natl. Acad. Sci. USA</i> 82:7270-7274, National Academy of Sciences (1985)
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<i>AZ</i>	AR	<u>210</u>	Shirai, M., <i>et al.</i> , "Site-Specific Integration of the Actinophage R4 Genome into the Chromosome of <i>Streptomyces parvulus</i> upon Lysogenization," <i>J. Bacteriol.</i> 173:4237-4239, American Society for Microbiology (1991)
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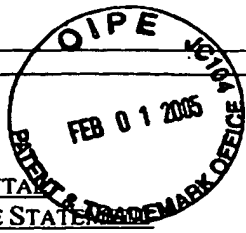
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AR	212	Ulmanen, I., <i>et al.</i> , "Transcription and Translation of Foreign Genes in <i>Bacillus subtilis</i> by the Aid of a Secretion Vector," <i>J. Bacteriol.</i> 162:176-182, American Society for Microbiology (1985)
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AD2	AR	213	Invitrogen Life Technologies online catalog, "Directional TOPO Entry Vectors," 4 pages, accessed September 27, 2002, available at: http://www.invitrogen.com/content.cfm?pageid=3799&cfid=2897960&cftoken=88086554
AS2	AS	213	U.S. Patent Application No. 11/000,371, Chesnut <i>et al.</i> , filed December 1, 2004 (NOT PUBLISHED) <i>Not for Publication</i>
AT	AT	213	Dialog File 351, Derwent World Patent Index, unverified English Language Abstract for French Patent No. FR 2 670 502 (Document AL20) and PCT Patent No. WO 92/10577 (Document AM20), WPI Accession No. 9107201

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<i>AZ</i>	AR	<u>214</u>	Office Action for U.S. Patent Application No. 10/820,133 mailed on November 17, 2004 <i>Not for Publication</i>				
<i>AZ</i>	AS	<u>214</u>	Office Action for U.S. Patent Application No. 09/907,719 mailed on December 28, 2004 <i>Not for Publication</i>				
<i>AZ</i>	AT	<u>214</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on December 28, 2004 <i>Not for Publication</i>				

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